

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Johns Manville Corporation 717 17th Street Denver, CO 80202

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: JM TPO Single Ply Roofing System over Recover Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 09-1013.07 and consists of pages 1 through 26. The submitted documentation was reviewed by Jorge L. Acebo.



And the

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ROOFING SYSTEM APPROVAL

<u>Category:</u> Roofing

Sub-Category: Single Ply Roofing

Material: TPO Recover

Maximum Design Pressure: See specific deck type

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	Dimensions	Test Specification	Product <u>Description</u>
			
JM TPO-45	45 mils thick	ASTM D 6878 TAS 131	Polyester reinforced Thermoplastic Olefin single ply membrane.
JM TPO-60	60 mils thick	ASTM D 6878 TAS 131	Polyester reinforced Thermoplastic Olefin single ply membrane.
JM TPO-80	80 mils thick	ASTM D 6878 TAS 131	Polyester reinforced Thermoplastic Olefin single ply membrane.
JM TPO FB-115	60 mils thick	ASTM D 6878 TAS 131	Polyester reinforced, fleece backed, Thermoplastic Olefin single ply membrane.
JM TPO FB-135	80 mils thick	ASTM D 6878 TAS 131	Polyester reinforced, fleece backed, Thermoplastic Olefin single ply membrane.
JM Urethane Insulation Adhesive	5 gal.	Proprietary	A one part, cold-applied adhesive
JM Two Part Urethane Insulation Adhesive	5 gal.	Proprietary	A two-component, cold-applied adhesive
JM TPO Membrane Adhesive (Solvent-Based)	5 gal.	Proprietary	A synthetic rubber-based adhesive used on single ply roofing membranes.
JM TPO Membrane Adhesive (Low VOC)	5 gal.	Proprietary	A synthetic rubber-based adhesive used with fully or partially adhered TPO roofing membrane systems.
JM TPO Membrane Adhesive (Water-Based)	5 gal.	Proprietary	A polymeric, wet laying (single side application), low-VOC adhesive.
JM TPO Primer	3 gal.	Proprietary	A synthetic polymer-based primer
JM TPO Primer (Low VOC)	3 gal.	Proprietary	A low VOC, synthetic polymer-based primer
JM Green Two Part Urethane Insulation Adhesive	5 gal.	Proprietary	A two-component, plant based, low VOC adhesive
JM TPO Walkpad	5/32" x 30" x 50'	Proprietary	Textured walkway protection membrane



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JM TPO Detail Membrane	24" x 50' (61 cm x 15.24 m)	TAS 131	Non-reinforced membrane for wrapping pipe flashings and vertical stacks and for waterproofing joints of JM TPO Coated Metal
JM TPO Universal Corners	Various	TAS 131	Pre-molded for easy installation of curb flashings or corner flashings on JM TPO-Coated Metal or JM TPO Membrane
JM TPO T-Joint Patch	4."	TAS 131	Non-reinforced membrane patch for covering t-joints and/or discs and fasteners
JM TPO Pipe Boots	1" x 6"	TAS 131	Cone-shaped stepping boots designed for flashing pipe penetrations
JM TPO Peel & Stick Pipe Boots	1" x 6"	TAS 131	Cone-shaped stepping boots designed for flashing pipe penetrations
JM TPO Cover Strip	6" x 100'	TAS 131	30 mil membrane with a factory-applied peel and stick adhesive tape used to strip in metal flanges
JM TPO 10" Cover Strip	10" x 100'	TAS 131	30 mil membrane with a factory-applied peel and stick adhesive tape used to strip in metal flanges
JM TPO Penetration Pocket	7.5" x 6"	TAS 131	Two-piece molded pocket with a rigid vertical wall and preformed flanges
JM TPO Coated Metal	4' x 10'	Proprietary	JM TPO Membrane laminated onto galvanized steel.
JM TPO Peel & Stick RTS	6" x 100'	TAS 131	45 mil TPO membrane strip with a 3" tape factory laminated along one edge
JM TPO Peel & Stick 10" RPS	10" x 100'	TAS 131	45 mil TPO membrane strip with a 3" tape factory laminated along one edge
JM TPO Curb Flashing	18" x 50	TAS 131	60 mil TPO membrane for flashing curbs and parapet walls.
JM TPO Reinforced Cover Strip	8" x 50'	TAS 131	60 mil TPO membrane strip use as a heat-weldable strip in mechanically fastened systems

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	Polyisocyanurate insulation	Johns Manville
Invinsa Roof Board	High density polyisocyanurate board	Johns Manville
DensDeck	Silicone treated gypsum	Georgia Pacific Gypsum, LLC
JM SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced coverboard	Johns Manville



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APPROVED FASTENERS:

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Fastener Number	Product Name	TABLE 3 Product Description	Dimensions	Manufacturer (With Current NOA)
1.	UltraFast Fasteners	Insulation and membrane fastener	#12 x 8" max. Length, #3 Phillips head	Johns Manville
2.	UltraFast 3" Round Metal Plates	Galvalume AZ55 steel Insulation Plate	3" diameter	Johns Manville
3.	UltraFast Square Recessed Metal Plates	Galvalume AZ55 steel Insulation Plate	3" square	Johns Manville
4.	High Load Fasteners	Insulation and membrane fastener	#15 x 14" max. #3Phillips hd	Johns Manville
5.	Extra High Load Fasteners	Insulation and membrane fastener	Various	Johns Manville
6.	High Load Plates	Seam plate with reinforcing ribs and eyehooks	2-3/8" round steel plate	Johns Manville
7.	Extra High Load Plates	Insulation Plate	Various	Johns Manville
8.	JM TPO RhinoPlate	Insulation Plates	3.15" diameter, 0.028" thick	Johns Manville
9.	JM Purlin Fastener	Carbon steel screw	Various	Johns Manville

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corporation	3032235	FM 4470	06/27/08
•	3030259	FM 4470	06/02/08
	3031917	FM 4470	06/20/08
	3030383	FM 4470	05/13/08
	3033700	FM 4470	10/10/08
	3036842	FM 4470	10/02/09
	3036559	FM 4470	10/02/09
	3037110	FM 4450	10/02/09
	3035538	FM 4470	10/02/09
Momentum Technologies	RX10A8A	TAS 131	03/29/10
	RX14C8A	TAS 131	03/29/10
	RX10A8B	TAS 131	03/29/10
PRI Construction Materials Technologies LLC	JMC-180-02-01	Physical Properties	11/11/13
Underwriters Laboratories, Inc.	R10167	UL 790	11/20/13
Trinity ERD	J33600.08.13	TAS 131	08/09/13



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APPROVED ASSEMBLIES:

Membrane Type: TPO

Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type A(1): One or more layers of insulation adhered with approved adhesive; membrane fully

adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Fasteners Insulation Layer Fastener (Table 3) Density/ft² ENRGY 3, ENRGY 3 25 PSI, ValuTherm

Minimum 1.5" thick

N/A N/A

Note: All insulation shall be adhered in 3/4" wide ribbons of JM Urethane Insulation Adhesive spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-

Based), or JM TPO Membrane Adhesive (Low VOC) adhesive applied to both the membrane and substrate for a combined rate of 1.67 gal/sq. Side laps are sealed

with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -217.5 psf. (See General Limitation #9)

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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type A(2): One or more layers of insulation adhered with approved adhesive; membrane fully

adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	,	·
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Invinsa Roof Board, DensDeck		·
Minimum 1/4" thick	N/A	N/A

Note: All insulation layers shall be adhered with 3/4" wide ribbons of JM Two Part Urethane Insulation Adhesive, spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-

Based) or JM TPO Membrane Adhesive (Low VOC) adhesive applied to both the membrane and substrate for a combined rate of 1.67 gal/sq. Side laps are sealed

with a 1.5-inch wide heat weld.

Or

JM TPO adhered to insulation using JM TPO Membrane Adhesive (Water-Based) applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with a 1.5-

inch wide heat weld.

Maximum Design

Pressures: -105 psf. (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type A(3): One or more layers of insulation adhered with approved adhesive; membrane fully

adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Invinsa Roof Board, DensDeck		
Minimum 1/4" thick	N/A	N/A

Note: All insulation layers shall be adhered in 3/4" wide ribbons of JM Urethane Insulation Adhesive, or Weather Tite One Step Foamable Adhesive, spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-

Based) or JM TPO Membrane Adhesive (Low VOC) adhesive applied to both the membrane and substrate for a combined rate of 1.67 gal/sq. Side laps are sealed

with a 1.5-inch wide heat weld.

Or

JM TPO Membrane Adhesive (Water-Based) applied to substrate only at a rate of

0.84 gal/sq. Side laps are sealed with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -75 psf. (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type A(4): One or more layers of insulation adhered with approved adhesive; membrane

fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm
Minimum 1.5" thick N/A N/A

Note: All insulation shall be adhered with JM Two Part Urethane Insulation Adhesive, JM Green Two Part Urethane Insulation Adhesive, JM Urethane Insulation Adhesive or Weather-Tite One Step Foamable Adhesive applied in 3/4" wide ribbons of spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB adhered to insulation using JM TPO Membrane Adhesive (Water-

Based) applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with a

1.5-inch wide heat weld.

Maximum Design -105 psf. with JM Two Part Urethane Insulation Adhesive or JM Green Two Part

Pressures: Urethane Insulation Adhesive (See General Limitation #9)

-75 psf. with JM Urethane Insulation Adhesive or Weather-Tite One Step

Foamable Adhesive (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type B: Base layer of insulation mechanically fastened, optional top layer adhered with

approved adhesive, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	2, 3, 4	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-25 lbs/100 ft², or JM Urethane Insulation Adhesive or JM Two Part Urethane Insulation Adhesive applied in ³/₄" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: JM TPO FB adhered to insulation using JM TPO Membrane Adhesive (Water-

Based) applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with

a 1.5-inch wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #9)

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TPO **Membrane Type:**

Recover, Insulated Deck Type 7I:

Deck Description: Concrete

System Type C(1): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Fasteners Insulation Layer Fastener Density/ft2 (Table 3) ENRGY 3, ENRGY 3 25 PSI, ValuTherm Minimum 1.5" thick 2, 3, 4 1:1.78 ft²

Note: All layers shall be simultaneously fastened; see above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-**Membrane:**

> Based), or JM TPO Membrane Adhesive (Low VOC) adhesive applied to both the membrane and substrate for a combined rate of 1.67 gal/sq. Side laps are sealed

with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -52.5 psf. (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type C(2): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	()	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Plywood		•
Minimum 19/32" thick	2, 3, 4	1:1.78 ft ²

Note: All layers shall be simultaneously fastened; see top layer above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-

Based) applied to both the membrane and substrate for a combined rate of 1.67

gal/sq. Side laps are sealed with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -75 psf. (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Steel/Wood

System Type C(3): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	(,	·
Maximum 0.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Plywood		
Minimum 19/32" thick	1, 2, 3, 4	1:1.78 ft ²

Note: All layers shall be simultaneously fastened; see top layer above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-

Based) applied to both the membrane and substrate for a combined rate of 1.67

gal/sq. Side laps are sealed with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -75 psf. (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type C(4): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	2, 3, 4	1:2 ft ²

Note: All layers shall be simultaneously fastened; see above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-

Based) or JM TPO Membrane Adhesive (Low VOC) adhesive applied to both the membrane and substrate for a combined rate of 1.67 gal/sq. Side laps are sealed

with a 1.5-inch wide heat weld.

Or

JM TPO Membrane Adhesive (Water-Based) can also be applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #9)

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TPO **Membrane Type:**

Deck Type 7I: Recover, Insulated

Deck Description: Steel/Wood

System Type C(5): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	(,	
Maximum 1/2" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Plywood Minimum 19/32" thick	1, 2, 3	1:2 ft²

Note: All layers shall be simultaneously fastened; see above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

JM TPO adhered to insulation using JM TPO Membrane Adhesive (Solvent-**Membrane:**

> Based) or JM TPO Membrane Adhesive (Low VOC) adhesive applied to both the membrane and substrate for a combined rate of 1.67 gal/sq. Side laps are sealed

with a 1.5-inch wide heat weld.

Or

JM TPO Membrane Adhesive (Water-Based) can also be applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with a 1.5-inch wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type C(6): Top layer of insulation mechanically fastened, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	2, 3, 4	1:2 ft ²

Note: All layers shall be simultaneously fastened; see above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB adhered to insulation using JM TPO Membrane Adhesive (Water-

Based) applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with a

1.5-inch wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type C(7): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	,	v
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Plywood	` ,	•
Minimum 19/32" thick	2, 3, 4	1:2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB adhered to insulation using JM TPO Membrane Adhesive (Water-

Based) applied to substrate only at a rate of 0.84 gal/sq. Side laps are sealed with a

1.5-inch wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Steel/Wood

System Type C(8): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	,	v
Maximum ½" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Plywood		
Minimum 19/32" thick	1, 2, 3	1:2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO FB adhered to insulation using JM TPO Membrane Adhesive (Water-

Based) applied to substrate at a rate of 0.84 gal/sq. Side laps are sealed with a 1.5-

inch wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #7)



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TPO **Membrane Type:**

Recover, Insulated Deck Type 7I:

Deck Description: Min. 2500 psi structural concrete or concrete plank.

Or

Min 18-22 ga., 80 ksi, steel deck fastened 6" o.c. with two Traxx 5 fasteners in supports spaced 6' o.c. Side laps fastened with Traxx 1 screws spaced evenly

between supports.

System Type C(9): Top layer of insulation mechanically fastened; membrane adhered to fastener

plates.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	, ,	•
Minimum 1.5" thick	4, 15	1:4 ft ²
Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck, JM SECUROCK Gypsum-Fiber	Roof Board, Invinsa Roof Board	•
Minimum ¼" thick	4, 15	1:4 ft ²
Plywood		
Minimum 19/32" thick	4, 15	1:4 ft ²

Note: Top layer of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: JM TPO membrane bonded to JM TPO RhinoPlates fastened as specified above.

Side laps are sealed with a 1.5-inch wide heat weld offset from the plates.

Maximum Design

Pressures: -67.5 psf. (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Min 18-22 ga., 80 ksi steel decking attached to steel supports spaced 6ft. o.c. using

Traxx 5 fasteners spaced 6" o.c. (at the bottom flute) and with side laps fastened

with Traxx 1 screws spaced evenly between supports.

System Type D(1): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1. The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made.

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Maximum 1" thick	N/A	N/A
DensDeck, JM SECUROCK Gypsum-Fiber Roc	of Board, Invinsa Roof Board	
Minimum 1/4" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: JM TPO mechanically fastened to the deck through the insulation as described

below; side laps are sealed with a 1.5-inch wide heat weld.

Fastening #1: Membrane is mechanically attached using High Load fasteners and plates spaced

6" o.c. within laps of an 8 ft. wide sheet.

Maximum Design Pressure -52.5 psf. (See General Limitations # 7)

Fastening # 2: Membrane is mechanically attached using Extra High Load fasteners and plates

spaced 12" o.c. within laps of an 8 ft. wide sheet.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #3: Membrane is mechanically attached using High Load fasteners and plates spaced

6" o.c. within laps of a 10 ft. wide sheet.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #4: Membrane is mechanically attached using Extra High Load fasteners and plates

spaced 12" o.c. within laps of a 10 ft. wide sheet.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening # 5: Membrane is mechanically attached using Extra High Load fasteners and plates

spaced 6" o.c. within laps of a 10 ft. wide sheet.

Maximum Design Pressure -52.5 psf. (See General Limitations # 7)

Maximum Design

Pressures: See Fastening Pattern. (See General Limitations # 7)



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Deck Type 7I: Recover, Insulated

Deck Description: Min 18-22 ga., 33 ksi steel decking attached to steel supports spaced 6ft. o.c.

using Traxx 5 fasteners spaced 6" o.c. (at the bottom flute) and with side laps

fastened with three Traxx 1 screws spaced evenly between supports.

System Type D(2): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1. The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made.

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	, , , , ,	•
Maximum 1" thick	N/A	N/A
DensDeck, JM SECUROCK Gypsum-Fiber Roof Bo	ard, Invinsa Roof Board	
Minimum ¼" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: JM TPO mechanically fastened to the deck through the insulation as described

below. Side laps are sealed with a 1.5-inch wide heat weld

Fastening #1: Membrane is mechanically attached using Extra High Load fasteners and plates

spaced 12" o.c. within laps of an 8 ft. wide sheet.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening # 2: Membrane is mechanically attached using High Load fasteners and plates spaced

6" o.c. within laps of an 8 ft. wide sheet.

Maximum Design Pressure -60 psf. (See General Limitations # 7)

Fastening #3: Membrane is mechanically attached using High Load fasteners and plates spaced

6" o.c. within laps of a 10 ft. wide sheet.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Maximum Design

Pressures: See Fastening Pattern. (See General Limitations # 7)



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Deck Type 7I: Recover, Insulated

Deck Description: Min 18-22 ga., 33 ksi steel decking attached to steel supports spaced 6ft. o.c.

using 2 Traxx 5 fasteners and $\frac{3}{4}$ " washers at each rib spaced 6" o.c. (at the bottom flute). The washers are low carbon steel flat 0.75" OD with 0.328" diameter hole, and 0.065" thick. The side laps are fastened with three Traxx 1

screws spaced evenly between the supports.

System Type D(3): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1. The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made.

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Maximum 1" thick	N/A	N/A
DensDeck, JM SECUROCK Gypsum-Fiber Roof	f Board, Invinsa Roof Board	
Minimum 1/4" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: JM TPO mechanically fastened to the deck through the insulation as described

below. Side laps are sealed with a 1.5-inch wide heat weld

Membrane is mechanically attached using High Load fasteners and plates spaced 6" o.c. within 6" laps of a 5 ft. wide sheet. Side laps sealed with a minimum 1.5"

heat weld.

Maximum Design

Pressures: -82.5 psf. (See General Limitations # 7)



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TPO **Membrane Type:**

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank.

Or

Min 18-22 ga., Grade 80, steel deck fastened 6" o.c. with two Traxx 5 fasteners in supports spaced 6' o.c. Side laps fastened with Traxx 1 screws

spaced evenly between supports.

System Type D(4): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1. The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft2
DensDeck, JM SECUROCK Gypsum-Fiber R	loof Board, Invinsa Roof Board	
Minimum ¼" thick	N/A	N/A
Plywood		
Minimum 19/32" thick	N/A	N/A

Note: (Steel only) Insulation combination shall have a maximum total thickness of 1-inch.

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

JM TPO mechanically fastened to the deck through the insulation as described **Membrane:**

below.

JM TPO RhinoPlates and High Load Fasteners spaced 6" o.c. in fastener rows **Fastening #1:**

spaced 120". Laps are sealed with a minimum 1.5" heat weld.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #2: JM TPO RhinoPlates and High Load Fasteners spaced 12" o.c. in fastener rows

spaced 60". Laps are sealed with a minimum 1.5" heat weld.

Maximum Design Pressure -52.5 psf. (See General Limitations # 7)

Fastening #3: JM TPO RhinoPlates and High Load Fasteners spaced 6" o.c. in fastener rows

spaced 60". Laps are sealed with a minimum 1.5" heat weld.

Maximum Design Pressure -105 psf. (See General Limitations # 7)

Maximum Design

Pressures: See Fastening Pattern. (See General Limitations # 7)



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TPO **Membrane Type:**

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank.

Or

Min 18-22 ga., 80 ksi, steel deck fastened 6" o.c. with two Traxx 5 fasteners in supports spaced 6' o.c. Side laps fastened with Traxx 1 screws spaced evenly

between supports.

System Type D(5): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1. The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		v
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
• • • • • • • • • • • • • • • • • • • •	(Table 3)	Density/ft2
DensDeck, JM SECUROCK Gypsum-Fiber I	Roof Board, Invinsa Roof Board	·
Minimum ¼" thick	N/A	N/A
Plywood		
Minimum 19/32" thick	N/A	N/A

Note: (Steel only) Insulation combination shall have a total thickness of 1-inch.

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: JM TPO is primed with JM TPO Primer or JM TPO Primer (Low VOC) and

attached to the deck through the insulation with JM TPO 10" RPS membrane

strips mechanically fastened as described below.

JM TPO 10" RPS membrane strips are secured to deck through the insulation with High Load Plates and High Load Fasteners in 114" rows, 6" o.c. The fasteners and plates are installed in the center down the middle of the JM TPO 10" RPS membrane strips. The primed JM TPO membrane is walked in over the self-adhereing JM TPO 10" RPS membrane strips. The JM TPO membrane side laps are sealed with a minimum 1.5" heat welds offset from the RPS membrane strips.

Maximum Design

-52.5 psf. (See General Limitations #7) **Pressures:**



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Deck Type 7I: Recover, Insulated

Deck Description: Existing Structural Non-Insulated Metal Panel Roof Assembly

System Type D(6): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1. The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made.

Base Insulation Layer: To be placed between the ribs or over panels of existing structural metal roof system.	Insulation Fasteners (Table 3)	Fastener Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm		
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft2
ENRGY 3, ENRGY 3 25 PSI, ValuTherm	, ,	·
Minimum 1.0" thick	N/A	N/A
DensDeck, JM SECUROCK Gypsum-Fiber Roof Board, In	nvinsa Roof Board	
Minimum ¹ / ₄ " thick	N/A	N/A
Plywood		
Minimum 19/32" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: JM TPO mechanically fastened to the deck through the insulation as described

below. 6" wide side laps are sealed with a 1.5-inch wide heat weld

Fastening #1: Membrane is mechanically attached to 16 ga. purlins or steel supports spaced 5-ft

o.c. using JM Purlin Fasteners and High Load Plates, fastened at every structural

support spaced 6" o.c. along the supports.

Maximum Design Pressure -82.5 psf. (See General Limitations # 7)

Fastening #2: Membrane is mechanically attached to 14 ga. purlins or steel supports spaced 5-ft

o.c. using JM Purlin Fasteners and Extra High Load Plates, fastened at every

structural support spaced 12" o.c. along the supports.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Fastening #3: Membrane is mechanically attached to 16 ga. purlins or steel supports spaced 5-ft

o.c. using JM Purlin Fasteners and JM TPO RhinoPlates fastened at every other

structural support spaced 6" o.c. along the supports.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

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Fastening #4: Membrane is mechanically attached to 16 ga. purlins or steel supports spaced 5-ft

o.c. using JM Purlin Fasteners and JM TPO RhinoPlates fastened at every

structural support spaced 6" o.c. along the supports.

Maximum Design Pressure -120 psf. (See General Limitations # 7)

Fastening #5: Membrane is mechanically attached to 16 ga. purlins or steel supports spaced 5-ft

o.c. using JM Purlin Fasteners and JM TPO RhinoPlates fastened at every

structural support spaced 12" o.c. along the supports.

Maximum Design Pressure -67.5 psf. (See General Limitations # 7)

Fastening #6: Membrane is mechanically attached to 16 ga. purlins or steel supports spaced 5-ft

o.c. using JM Purlin Fasteners and JM TPO RhinoPlates fastened at every

structural support spaced 18" o.c. along the supports.

Maximum Design Pressure -45 psf. (See General Limitations # 7)

Maximum Design

Pressures: See Fastening Pattern. (See General Limitations # 7)



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RECOVER SYSTEM LIMITATIONS:

All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- All standard panel sizes are acceptable for mechanical attachment. When applied in approved 3. asphalt, panel size shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell 4 foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based 6. on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these 7. areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs 8. shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- All products listed herein shall have a quality assurance audit in accordance with the Florida 10. Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

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